

REMARKS

Reconsideration is respectfully requested. Claims 1, 2, 4 and 6 are present in the application. Claim 1 is amended. The title is amended herein.

Claim 1 is objected to, regarding "(H(t)" being present. We thank the Examiner for noting this typographical error, which has been corrected herein by amendment of claim 1.

Claims 1, 2 and 4 are rejected under 35 U.S.C. §112, second paragraph, as allegedly being indefinite for failing to particularly point out and distinctly claim the subject matter which applicants regard as the invention.

The Examiner asserts that the limitation "a two variable data" is mis-descriptive, stating that the sampling function is operated based on only one variable dimension "t"

Applicant respectfully believes that the claim is appropriate as given, as the system is a two variable data interpolation system and the sampling function is appropriately described.

Claims 1, 2, 4 and 6 are rejected under 35 U.S.C. §103(a) as allegedly being unpatentable over Masaru Kamada et al ("A Smooth Signal Generator Based on Quadratic B-spline Functions") in view of Maltsev et al (U.S. 6,018,597). Applicants respectfully traverses.

In the office action, the Examiner states that Masaru Kamada et al discloses the sampling function having the definition of the same contents of the amended claim 1.

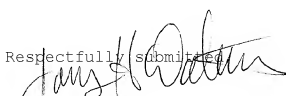
Applicants respectfully cannot agree with this opinion. The equation (2) in the right column on page 1252 of the Masaru Kamada document is showing a definition of B spline function. The B spline function expressed by the equation (2) is same as the definition of the B spline described in claim 4 of the present application, fundamentally. However, it is a feature recited by claim 1 of the present application to use the sampling function $H(t)$ that is defined by $-F(t+1/2)/4 + F(t) - F(t-1/2)/4$. As is apparent from his definition, the sampling function $H(t)$ in claim 1 of the present application is obtained by adding up three B spline functions, that is, $-F(t+1/2)/4$, $F(t)$ and $-F(t-1/2)/4$. Masaru Kamada documents does not describe or suggest concerning to the sampling function $H(t)$, such as in claim 1 of the present application. The sampling function in the Masaru Kamada document is obtained by adding up more than three (infinite) B spline functions. This is an apparent difference from the sampling function $H(t)$ in claim 1 of the present application.

Further, note that each of the above three B spline functions $-F(t+1/2)/4$, $F(t)$ and $-F(t-1/2)/4$ is a function of local support, therefore it is also true that the sampling function $H(t)$ obtained by addition of these functions is a function of local support, too.

It is respectfully submitted that the combination proposed by the Examiner would not produce the claimed invention and accordingly, claims 1, 2, 4 and 6 are allowable.

In light of the above noted amendments and remarks, this application is believed in condition for allowance and notice thereof is respectfully solicited. The Examiner is asked to contact applicant's attorney at 503-224-0115 if there are any questions.

Respectfully submitted,


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